

04/12/01
10860 U.S. PTO

Please type a sign (+) inside this box

PTO/SB/05 (08-00)

Approved for use through 10/31/2002. OMB 0651-0032

Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number

UTILITY PATENT APPLICATION TRANSMITTAL

(Only for new nonprovisional applications under 37 CFR 1.53(b))

APPLICATION ELEMENTS

See MPEP chapter 600 concerning utility patent application contents

1. Fee Transmittal Form (e.g., PTO/SB/17)
(Submit an original, and a duplicate for fee processing)
2. Applicant claims small entity status.
See 37 CFR 1.27.
3. Specification [Total Pages 1-351]
(preferred arrangement set forth below)
 - Descriptive title of the Invention
 - Cross Reference to Related Applications
 - Statement Regarding Fed sponsored R & D
 - Reference to sequence listing, a table, or a computer program listing appendix
 - Background of the Invention
 - Brief Summary of the Invention
 - Brief Description of the Drawings (if filed)
 - Detailed Description
 - Claim(s)
 - Abstract of the Disclosure
4. Drawing(s) (35 U.S.C. 113) (Figs 1-14, 15A-15D)
[Total Sheets 18]
5. Oath or Declaration (unexecuted) [Total Pages 2]
 - a. Newly executed (original or copy)
 - b. Copy from a prior application (37 CFR 1.63(d))
(for continuation/divisional with Box 17 completed)
- i. **DELETION OF INVENTOR(S)**
Signed statement attached deleting inventor(s) named in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b).
6. Application Data Sheet. See 37 CFR 1.76.

17. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment, or in an Application Data Sheet under 37 CFR 1.76:

Continuation Divisional Continuation-in-Part (CIP) of prior application No: _____
Prior application information: Examiner: _____ Group/Art Unit: _____

For CONTINUATION OR DIVISIONAL APPS only. The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.

18. CORRESPONDENCE ADDRESS

Customer Number or Bar Code Label **22195** or Correspondence address below

NAME			
ADDRESS			
CITY	STATE	ZIP CODE	
COUNTRY	TELEPHONE	FAX	
NAME (Print/Type)	Michele M. Wales		
SIGNATURE	<i>Michele M. Wales</i>		
		Registration No. (Attorney/Agent)	43,975
		Date	April 12, 2001

This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Box Patent Application, Washington, DC 20231.

1046 U.S. PRO
09/822029
04/12/01

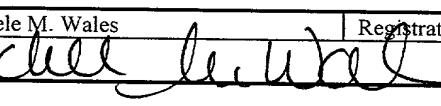
FEE TRANSMITTAL for FY 2001

Patent fees are subject to annual revision.

Total amount of payment	\$4,390.00	Attorney Docket Number	PF547
-------------------------	------------	------------------------	-------

METHOD OF PAYMENT				FEE CALCULATION (continued)																																																																																																																																																																								
<p>1. <input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge indicated fees and credit any overpayments to:</p> <p>Deposit Account Number 08-3425</p> <p>Deposit Account Name Human Genome Sciences, Inc.</p> <p><input checked="" type="checkbox"/> Charge Any Additional Fee Required Under 37 CFR §§ 1.16 and 1.17</p> <p><input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27</p>				<p>3. ADDITIONAL FEES</p> <table border="1"> <thead> <tr> <th>Fee Code</th> <th>Large Entity Fee (\$)</th> <th>Small Entity Fee (\$)</th> <th>Fee Description</th> <th>Fee Paid</th> </tr> </thead> <tbody> <tr><td>105</td><td>130</td><td>205</td><td>Surcharge - late filing fee or oath</td><td></td></tr> <tr><td>127</td><td>50</td><td>227</td><td>Surcharge - late provisional filing fee or cover sheet</td><td></td></tr> <tr><td>139</td><td>130</td><td>139</td><td>Non-English specification</td><td></td></tr> <tr><td>147</td><td>2,520</td><td>147</td><td>For filing a request for <i>ex parte</i> reexamination</td><td></td></tr> <tr><td>112</td><td>920*</td><td>112</td><td>Requesting publication of SIR prior to Examiner action</td><td></td></tr> <tr><td>113</td><td>1,840*</td><td>113</td><td>Requesting publication of SIR after Examiner action</td><td></td></tr> <tr><td>115</td><td>110</td><td>215</td><td>Extension for reply within first month</td><td></td></tr> <tr><td>116</td><td>390</td><td>216</td><td>Extension for reply within second month</td><td></td></tr> <tr><td>117</td><td>890</td><td>217</td><td>Extension for reply within third month</td><td></td></tr> <tr><td>118</td><td>1,390</td><td>218</td><td>Extension for reply within fourth month</td><td></td></tr> <tr><td>128</td><td>1,890</td><td>228</td><td>Extension for reply within fifth month</td><td></td></tr> <tr><td>119</td><td>310</td><td>219</td><td>Notice of Appeal</td><td></td></tr> <tr><td>120</td><td>310</td><td>220</td><td>Filing a brief in support of an appeal</td><td></td></tr> <tr><td>121</td><td>270</td><td>221</td><td>Request for oral hearing</td><td></td></tr> <tr><td>138</td><td>1,510</td><td>138</td><td>Petition to institute a public use proceeding</td><td></td></tr> <tr><td>140</td><td>110</td><td>240</td><td>Petition to revive -unavoidable</td><td></td></tr> <tr><td>141</td><td>1,240</td><td>241</td><td>Petition to revive - unintentional</td><td></td></tr> <tr><td>142</td><td>1,240</td><td>242</td><td>Utility issue fee (or reissue)</td><td></td></tr> <tr><td>143</td><td>440</td><td>243</td><td>Design issue fee</td><td></td></tr> <tr><td>144</td><td>600</td><td>244</td><td>Plant issue fee</td><td></td></tr> <tr><td>122</td><td>130</td><td>122</td><td>Petitions to the Commissioner</td><td></td></tr> <tr><td>123</td><td>50</td><td>123</td><td>Petitions related to provisional applications</td><td></td></tr> <tr><td>126</td><td>180</td><td>126</td><td>Submission of Information Disclosure Statement</td><td></td></tr> <tr><td>581</td><td>40</td><td>481</td><td>Recording each patent assignment per property (times number of properties)</td><td></td></tr> <tr><td>146</td><td>710</td><td>246</td><td>Filing a submission after final rejection (37 CFR 1.129(a))</td><td></td></tr> <tr><td>149</td><td>710</td><td>249</td><td>For each additional invention to be examined (37 CFR 1.129(b))</td><td></td></tr> <tr><td>179</td><td>710</td><td>279</td><td>Request for Continued Examination (RCE)</td><td></td></tr> <tr><td>169</td><td>900</td><td>169</td><td>Request for expedited examination of a design application</td><td></td></tr> <tr><td colspan="4">Other fee (specify):</td><td></td></tr> <tr><td colspan="4">Other fee (specify):</td><td></td></tr> <tr><td colspan="4">Other fee (specify):</td><td></td></tr> <tr> <td colspan="4"> * Reduced by Basic Filing Fee Paid </td> <td>SUBTOTAL (3) \$0.00</td> </tr> </tbody> </table>				Fee Code	Large Entity Fee (\$)	Small Entity Fee (\$)	Fee Description	Fee Paid	105	130	205	Surcharge - late filing fee or oath		127	50	227	Surcharge - late provisional filing fee or cover sheet		139	130	139	Non-English specification		147	2,520	147	For filing a request for <i>ex parte</i> reexamination		112	920*	112	Requesting publication of SIR prior to Examiner action		113	1,840*	113	Requesting publication of SIR after Examiner action		115	110	215	Extension for reply within first month		116	390	216	Extension for reply within second month		117	890	217	Extension for reply within third month		118	1,390	218	Extension for reply within fourth month		128	1,890	228	Extension for reply within fifth month		119	310	219	Notice of Appeal		120	310	220	Filing a brief in support of an appeal		121	270	221	Request for oral hearing		138	1,510	138	Petition to institute a public use proceeding		140	110	240	Petition to revive -unavoidable		141	1,240	241	Petition to revive - unintentional		142	1,240	242	Utility issue fee (or reissue)		143	440	243	Design issue fee		144	600	244	Plant issue fee		122	130	122	Petitions to the Commissioner		123	50	123	Petitions related to provisional applications		126	180	126	Submission of Information Disclosure Statement		581	40	481	Recording each patent assignment per property (times number of properties)		146	710	246	Filing a submission after final rejection (37 CFR 1.129(a))		149	710	249	For each additional invention to be examined (37 CFR 1.129(b))		179	710	279	Request for Continued Examination (RCE)		169	900	169	Request for expedited examination of a design application		Other fee (specify):					Other fee (specify):					Other fee (specify):					* Reduced by Basic Filing Fee Paid				SUBTOTAL (3) \$0.00
Fee Code	Large Entity Fee (\$)	Small Entity Fee (\$)	Fee Description	Fee Paid																																																																																																																																																																								
105	130	205	Surcharge - late filing fee or oath																																																																																																																																																																									
127	50	227	Surcharge - late provisional filing fee or cover sheet																																																																																																																																																																									
139	130	139	Non-English specification																																																																																																																																																																									
147	2,520	147	For filing a request for <i>ex parte</i> reexamination																																																																																																																																																																									
112	920*	112	Requesting publication of SIR prior to Examiner action																																																																																																																																																																									
113	1,840*	113	Requesting publication of SIR after Examiner action																																																																																																																																																																									
115	110	215	Extension for reply within first month																																																																																																																																																																									
116	390	216	Extension for reply within second month																																																																																																																																																																									
117	890	217	Extension for reply within third month																																																																																																																																																																									
118	1,390	218	Extension for reply within fourth month																																																																																																																																																																									
128	1,890	228	Extension for reply within fifth month																																																																																																																																																																									
119	310	219	Notice of Appeal																																																																																																																																																																									
120	310	220	Filing a brief in support of an appeal																																																																																																																																																																									
121	270	221	Request for oral hearing																																																																																																																																																																									
138	1,510	138	Petition to institute a public use proceeding																																																																																																																																																																									
140	110	240	Petition to revive -unavoidable																																																																																																																																																																									
141	1,240	241	Petition to revive - unintentional																																																																																																																																																																									
142	1,240	242	Utility issue fee (or reissue)																																																																																																																																																																									
143	440	243	Design issue fee																																																																																																																																																																									
144	600	244	Plant issue fee																																																																																																																																																																									
122	130	122	Petitions to the Commissioner																																																																																																																																																																									
123	50	123	Petitions related to provisional applications																																																																																																																																																																									
126	180	126	Submission of Information Disclosure Statement																																																																																																																																																																									
581	40	481	Recording each patent assignment per property (times number of properties)																																																																																																																																																																									
146	710	246	Filing a submission after final rejection (37 CFR 1.129(a))																																																																																																																																																																									
149	710	249	For each additional invention to be examined (37 CFR 1.129(b))																																																																																																																																																																									
179	710	279	Request for Continued Examination (RCE)																																																																																																																																																																									
169	900	169	Request for expedited examination of a design application																																																																																																																																																																									
Other fee (specify):																																																																																																																																																																												
Other fee (specify):																																																																																																																																																																												
Other fee (specify):																																																																																																																																																																												
* Reduced by Basic Filing Fee Paid				SUBTOTAL (3) \$0.00																																																																																																																																																																								
<p>2. <input type="checkbox"/> Payment Enclosed:</p> <p><input type="checkbox"/> Check <input type="checkbox"/> Credit Card <input type="checkbox"/> Money Order <input type="checkbox"/> Other</p>																																																																																																																																																																												
FEE CALCULATION																																																																																																																																																																												
1. BASIC FILING FEE																																																																																																																																																																												
Large Entity		Small Entity		Fee Description	Fee Paid																																																																																																																																																																							
Fee Code	Fee (\$)	Fee Code	Fee (\$)																																																																																																																																																																									
101	710	201	355	Utility filing fee	710.00																																																																																																																																																																							
136	320	206	160	Design filing fee																																																																																																																																																																								
107	490	207	245	Plant filing fee																																																																																																																																																																								
138	710	208	355	Reissue filing fee																																																																																																																																																																								
114	150	214	75	Provisional filing fee																																																																																																																																																																								
		SUBTOTAL (1)	\$710.00																																																																																																																																																																									
2. EXTRA CLAIM FEES																																																																																																																																																																												
		Extra Claims	Fee from below	Fee Paid																																																																																																																																																																								
Total Claims	205	-20*	185	\$18.00	\$3330																																																																																																																																																																							
Independent Claims	4	-3*	1	\$80.00	\$80																																																																																																																																																																							
Multiple Dependent				\$270.00	\$270																																																																																																																																																																							
3. ADDITIONAL FEES																																																																																																																																																																												
Large Entity		Small Entity		Fee Description	Fee Paid																																																																																																																																																																							
Fee Code	Fee (\$)	Fee Code	Fee (\$)																																																																																																																																																																									
103	18	203	9	Claims in excess of 20																																																																																																																																																																								
102	80	202	40	Independent claims in excess of 3																																																																																																																																																																								
104	270	204	135	Multiple dependent claim, if not paid																																																																																																																																																																								
108	80	209	40	** Reissue independent claims over original patent																																																																																																																																																																								
110	18	210	9	** Reissue claims in excess of 20 and over original patent																																																																																																																																																																								
		SUBTOTAL (2)	\$3,680.00																																																																																																																																																																									

** or number previously paid, if greater; For Reissues, see above

Submitted By				Complete (if applicable)
Name (Print/Type)	Michele M. Wales	Registration No.:	43,975	Telephone: 301-610-5772
Signature:				Date: 4/12/01

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Washington, DC 20231.